TRW CubeSAT Collaborative



JPL April 4, 2002 Dr. Ray M. Haynes, Director Office of the Chief Engineer

Mission

- Encourage collaborative activities with students, faculty and other players
- Prelims-Cal Poly, SSI and VAFB
- Resources: funding, guest speakers, workshops, test equipment, flight HW, project reviews, launches...time!
- Focus: personal relationships, trade studies, communication and sharing

Ontological Approach

- Schools: USAFA, UofA, Alabama A&M, Cal Poly, CSULB, Loyola Marymount, MIT, Purdue, Stanford, Weber State
- Government: AFRL, DARPA, NASA, NRO, NSF
- Industry: Boeing, Lockheed-Martin, Northrop-Grumman, Raytheon, Rincon Research, SeaLaunch/SpaceDev

Side Effects

- Release time, share knowledge
- Recruiting best and brightest
- Goodwill-customer relationships
- "Fresh eyes" from students ideas
- Learning by all parties

Evolution

- Funded projects & PDR/CDR Reviews
- Aero/Astro programs >>>
- Cross discipline within Engr. School
- E-school and B-school interactions (\$)
- E-School and science programs
- Multiple universities sharing ideas

Summary

- Learning: Excellent informal venue
- Networking: TRW and university alumni enrichment and development
- Win-win benefits (cross perspectives)
- Systems engineering as critical skill
- Right thing to do...Fun!